Artefact 1 - Infrastructure at Lochrin Basin

Date: 8-November-2023
Author: Group work and self

About

Collectively these images demonstrate the absence of green spaces and biodiversity in Lochrin Basin. Image 2 shows the trees that were removed when the site was redeveloped. Image 3 shows murky water in the canal devoid of any aquatic species.

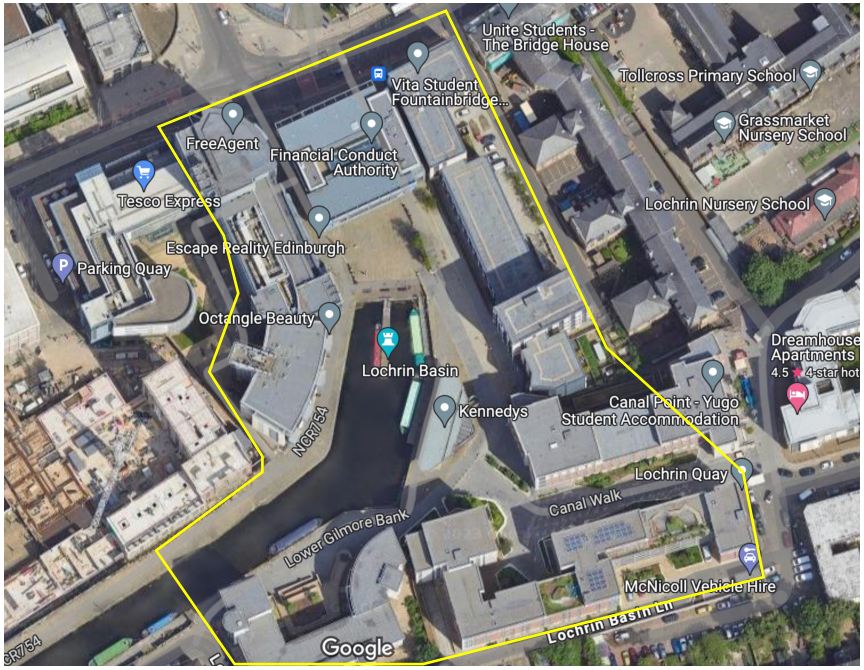


Image 1
Source - https://www.google.com/maps/@55.9427814,-3.2087003,227m/data=!3m1!1e3?entry=ttu

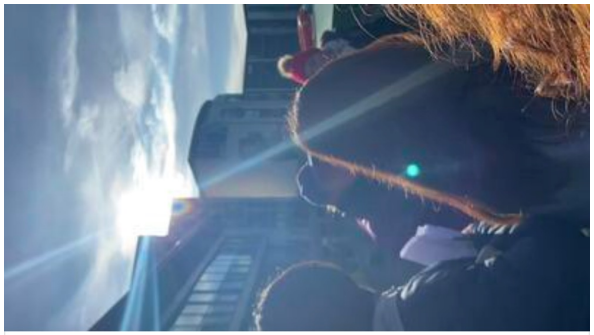
Image 2 (year -2016)
Source - https://maps.app.goo.gl/mazTEm8rAVpDTiZY7

Image 3

Artefact 2 – Place Assessment

Date: 8-November-2023
Author: Group work

About
Interview with community members (video 1) provided an insight into the social (lack of participation), economic (closed business – Image 1) and environmental (lack of green spaces) challenges. Reflecting on the interview and visual assessment data using Place Standard Tool (Image 2) served as the basis for our plan to use GI assets for transformation.



https://media.ed.ac.uk/media/t/1_cw0xe953

Video 1

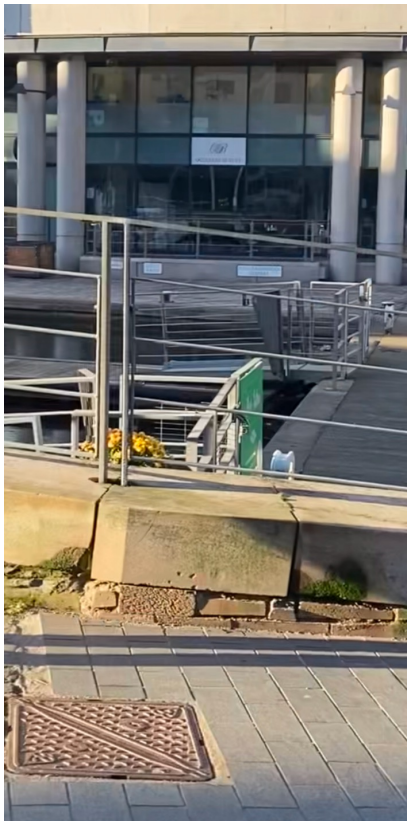


Image 1

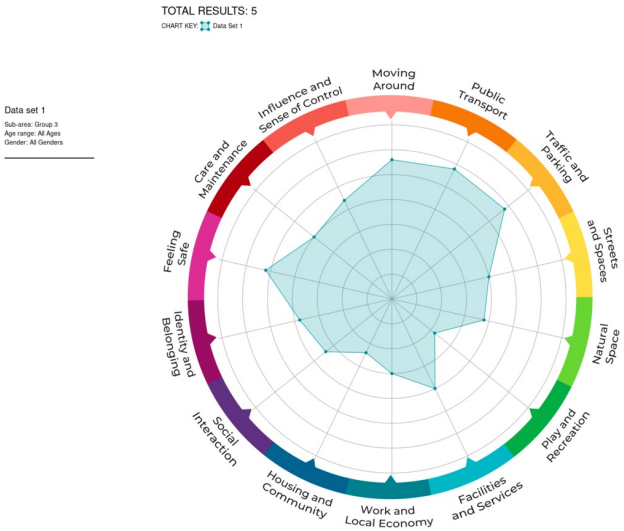


Image 2

Artefact 3 – Adapting building

Date: 8-November-2023
Author: Group work

About

Multiple green roofs identified below (Image 1) can be used as productive landscaped for urban agricultural farming for example cultivation of mushrooms (Image 2). Blue roof represents solar panels that can be used to produce energy locally for above efforts.

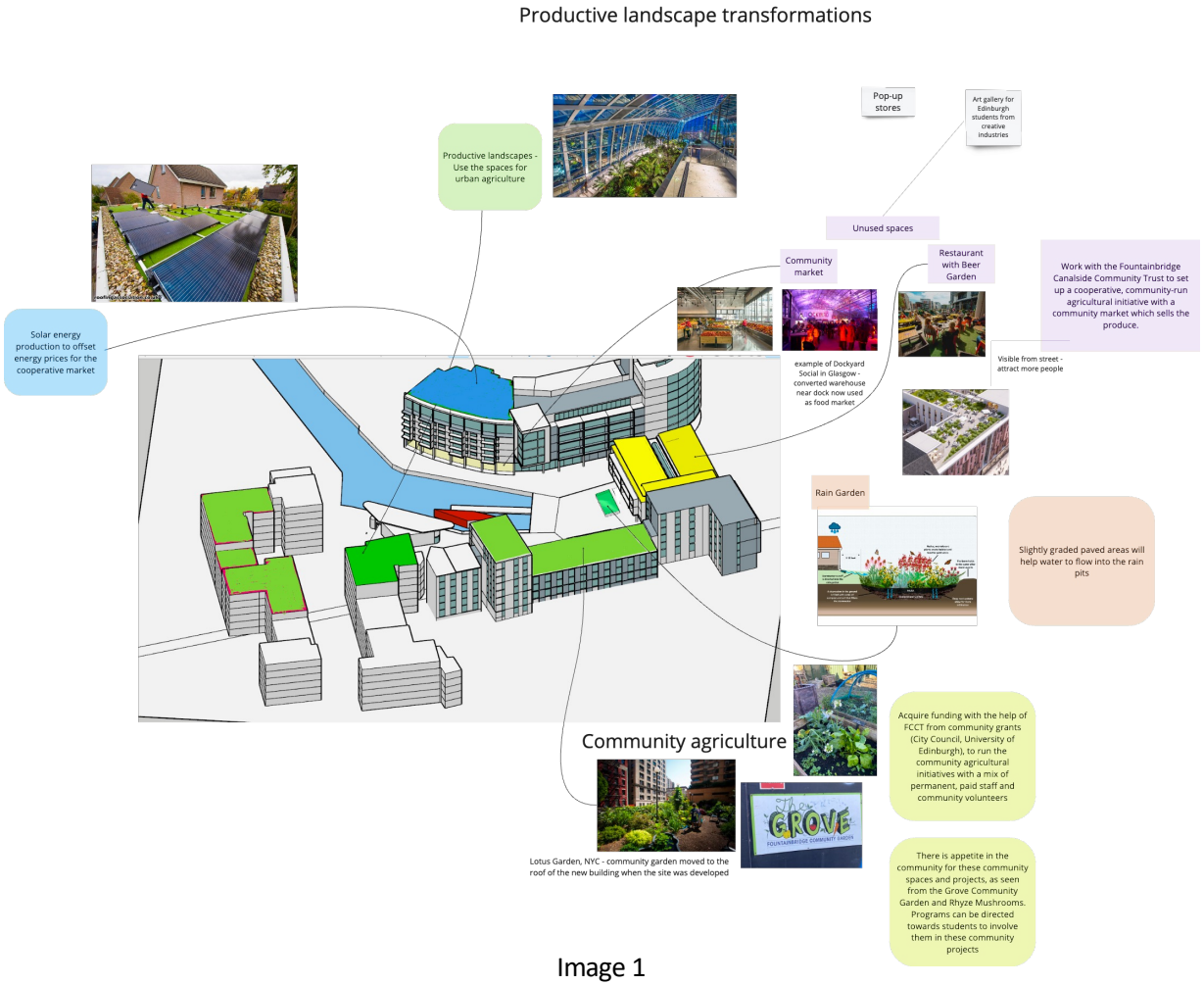


Image 1

Image 2
Source - https://rhyzemushrooms.scot/our-farm

Artefact 4 – Rejuvenating canal

Date: 8-November-2023
Author: Group work

About

In addition to green roofs, boats can be retrofitted for urban agriculture. To restore biodiversity in the water body, floating green pods can be created with flora suitable for Edinburgh's climate.

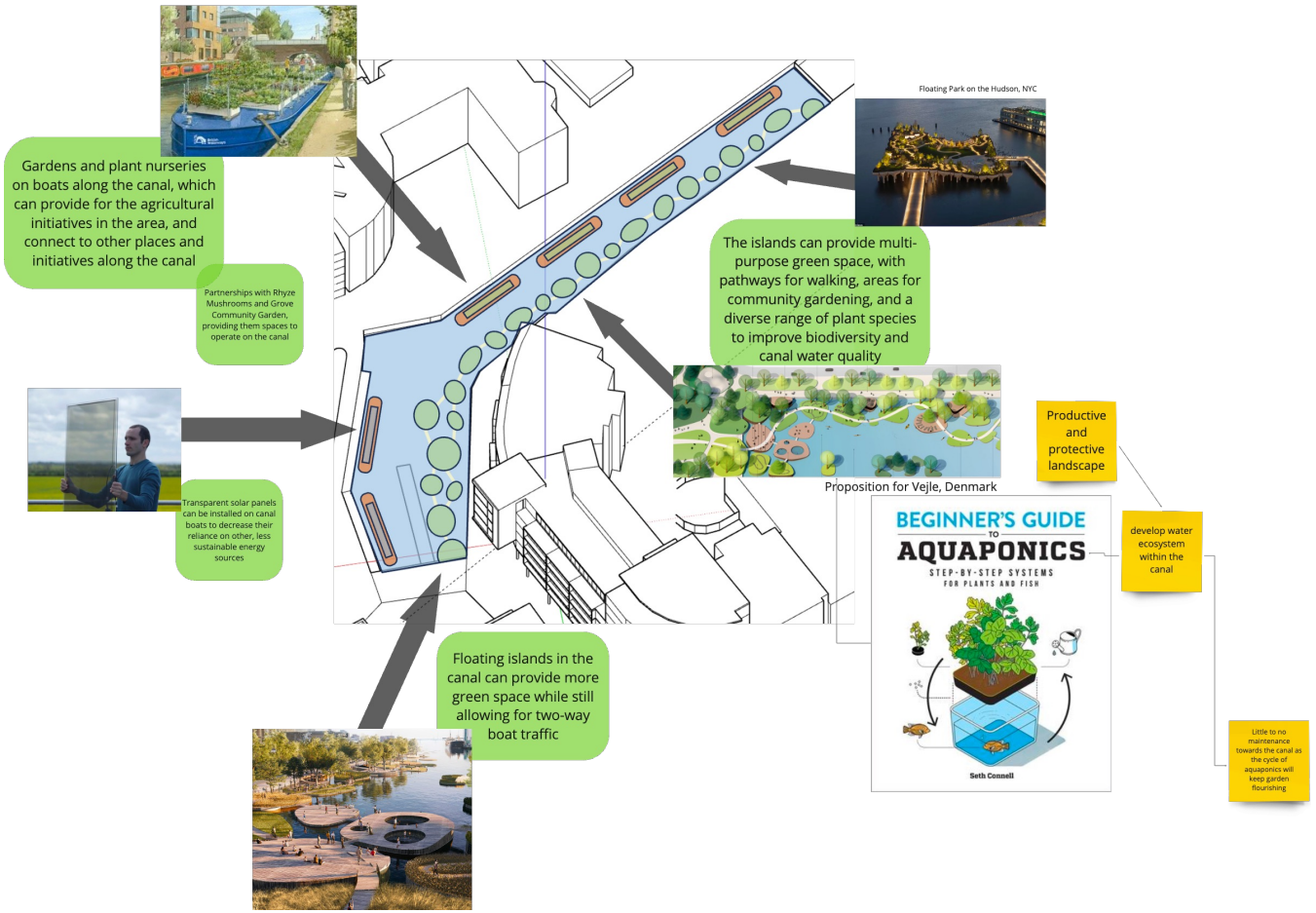


Image 1

Artefact 5 – Increasing visibility

Date: 8-November-2023
Author: Group work

About

Lochrin basin is hardly noticeable from the main street as the building in the middle obscure the entrance. Green walls, artful illumination and streetlights can bring attention to the area, enticing visitors. These lighting can be powered by solar cells (artefact-3)

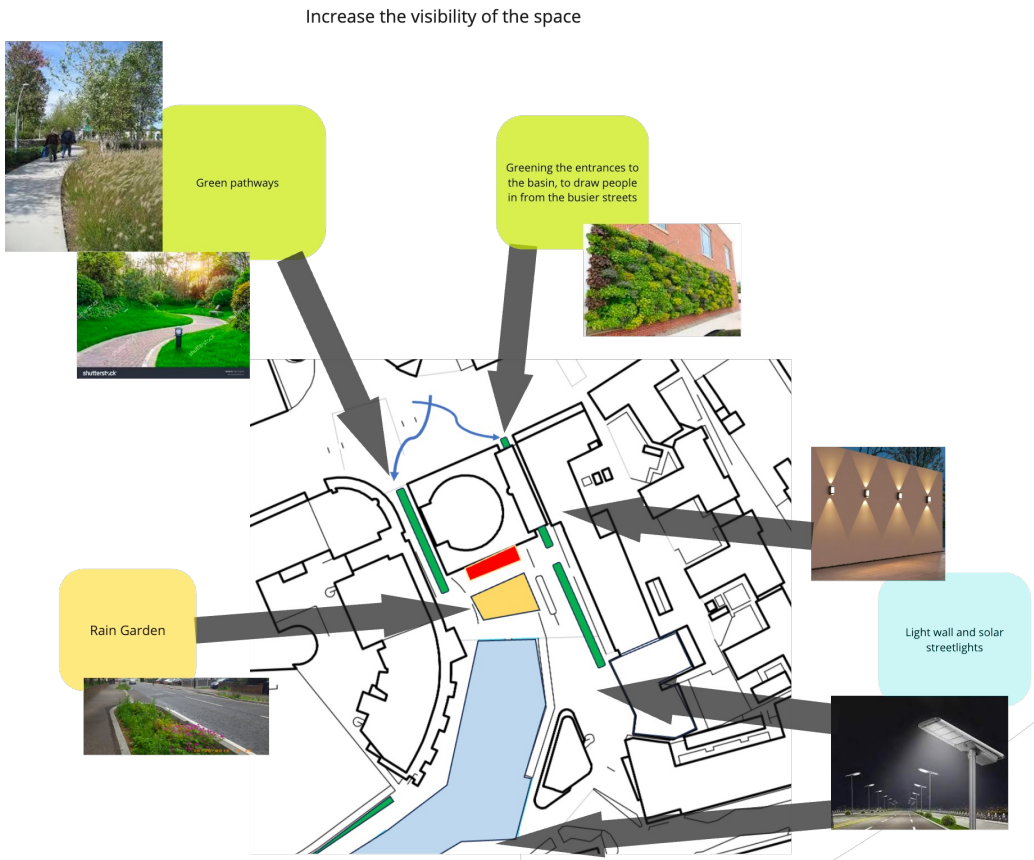


Image 1

Artefact 6 – CPUL: A vision for sustainable cities

Date: 8-November-2023
Author: Group work

About

Purposefully designed urban agricultural farms can provide immense social, economic and environmental values. Image 1 and 2 represents an approach to design a rooftop by measuring the area and design planting sites which can transform to a farm like one in Image 3. Establishing many such areas within the city can lead to connected spaces rich in biodiversity (Image 4).

Image 1

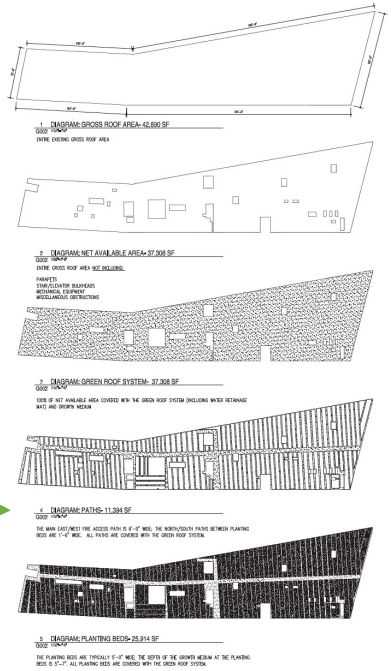


Image 2
Source - Book 'Second Nature Urban Agriculture', page 126

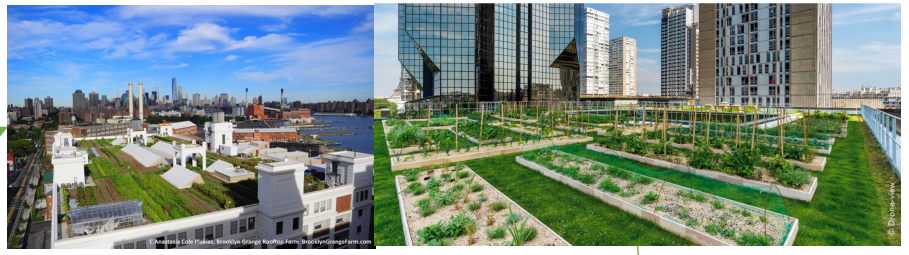


Image 3
Source - https://www.tripadvisor.co.uk/Attraction_Review-g60827-d8263893-Reviews-Brooklyn_Grange_Rooftop_Farm-Brooklyn_New_York.html
https://zinco-usa.com/systems/urban-rooftop-farming

Image 4
Source - https://blogs.brighton.ac.uk/pulr/cpul-concept/